# **S&MA Mission Services**Task Directive

JUN 1 9 2001

Control No. 005 T/73- QS21-SVTD-000	PROJECT CODE: 2 <sup>nd</sup> . Generation Launch Vehicle		Contract No. NAS8-2 <sup>nd</sup> GEN	
Originator's Signature: TA-8 Kyle Daniel	iniel	Date: 4/2//2	00/	Originator's Priority: High
Office Manager's Signature:  QS21 Space Vehicle Manager	nauh	Date: 4-16-01		
COTR's Approval:		Date: 6-/-0		
Subject: Safety & Mission Assurance support for	or the 2 <sup>nd</sup> . Generation	Launch Vehicle –	TA-8	

# **Task Description:**

## Safety (WBS-list applicable)

- 1) Support 2<sup>nd</sup>. Gen TA teams to assure safety requirements understood and incorporated in design
- 2) Support development of S&MA Plan
- 3) Support Milestone Reviews (SRR, PDR, CDR, SRP, etc)
- 4) Review Safety Data Package/Hazard Analysis provided by TA contractors
- 5) Support Safety Review Panels (NASA headquarters and Military Ranges, as applicable)
- 6) Evaluate Software Safety effort of the contractors for the TA projects
- 7) Evaluate project design changes for safety impacts
- 8) Review Verification Plans/procedure/closures
- 9) Ongoing Safety Assessment of contractor design through all project phases

## R&M (WBS-list applicable)

- 1) Support development of S&MA Plan
- 2) Support TA project teams
- 3) Support Milestone Reviews, (SRR, PDR, CDR, etc)
- 4) Review accuracy of contractor provided FMEAS, Fault Trees, Predictions and Risk Assessments
- 5) Support PRA evaluations provided by the contractors

# Quality (WBS-list applicable)

- 1) Support TA Team meetings and TIMs
- 2) Support development of S&MA Plan and prepare or evaluate the Project Quality Plan
- 3) Participate in Milestone Reviews (SRR, PDR, CDR, DCR, AR, FRR, etc.)
- 4) Perform inspections and assessments of contractor processes and hardware
- 5) Evaluate contractor Software Quality Assurance effort
- 6) Support audits and Acceptance Reviews
- 7) Evaluate engineering changes
- 8) Support Failure and Problem Analyses and the non-conforming materials process
- 9) Support hardware and Test Readiness Reviews

## Project Assurance (WBS-list applicable)

- 1) Coordinate the HEI / S&MA support activities with the NASA S&MA TA leads
- 2) Participate in the milestone reviews, data reviews, safety reviews and readiness reviews and operations
- 3) Coordinate the HEI S&MA activities with the S&MA project lead to include resource statusing
- 4) Brief TA Project Management on technical issues on as required basis
- 5) Support the development of the 2<sup>nd</sup>. Gen requirements and verification

JUN 19 2001

# S&MA Mission Services Task Directive

005 TOY

Control No. <del>Q321-SVTD-00</del>0

PROJECT CODE: 2<sup>nd</sup>. Gen

Contract No. NAS8-2<sup>nd</sup> GEN

#### Deliverables:

# Safety

- 1) Safety inputs to the S&MA Plan
- 2) Safety documentation to support Milestone Reviews (generation and closure of Review Item Discrepancies)
- 3) Safety Data Package as appropriate for various Safety Reviews
- 4) Document and brief safety deficiencies identified through out the project phases

## <u>R&M</u>

- 1) Reliability inputs to S&MA Plan, engineering changes, etc.
- 2) Reliability review comments to Milestone Review documentation
- 3) Evaluate contractor provided FMEAs, Fault Trees, PRAs and Risk Assessment
- 4) Provide milestone review support (generation and closure of Review Item Discrepancies)

## Quality

- 1) Quality input to S&MA Plan, Project Quality Plan, engineering changes, problem analyses, etc.
- 2) Review comments for Milestone Review documentations
- 3) Inspection reports
- 4) Document findings and recommended correcting actions resulting from contractor audits and assessments
- 5) Provide milestone review support (generation and closure of Review Item Discrepancies)

### Project Assurance

- 1) Provide status of functional discipline support to the TA's to S&MA
- 2) Identify areas where addition FTE resources are required and facilitate implementation of the additional resources
- 3) Provide milestone review support (generation and closure of Review Item Discrepancies)

## Schedules/Duration:

- 1) Support schedules as defined by the Project
- Define the anticipated life of project requiring support

#### **Resource Estimate:**

(b)(4)

\* Additional in-house tasks may be identified and will be negotiated at a later date

Report Progress To: S&MA Project Lead	Frequency of Report:
	Weekly